

No. 854,986.

PATENTED MAY 28, 1907.

J. W. DE WEESE.

FLUE STOPPER.

APPLICATION FILED JUNE 27, 1906.

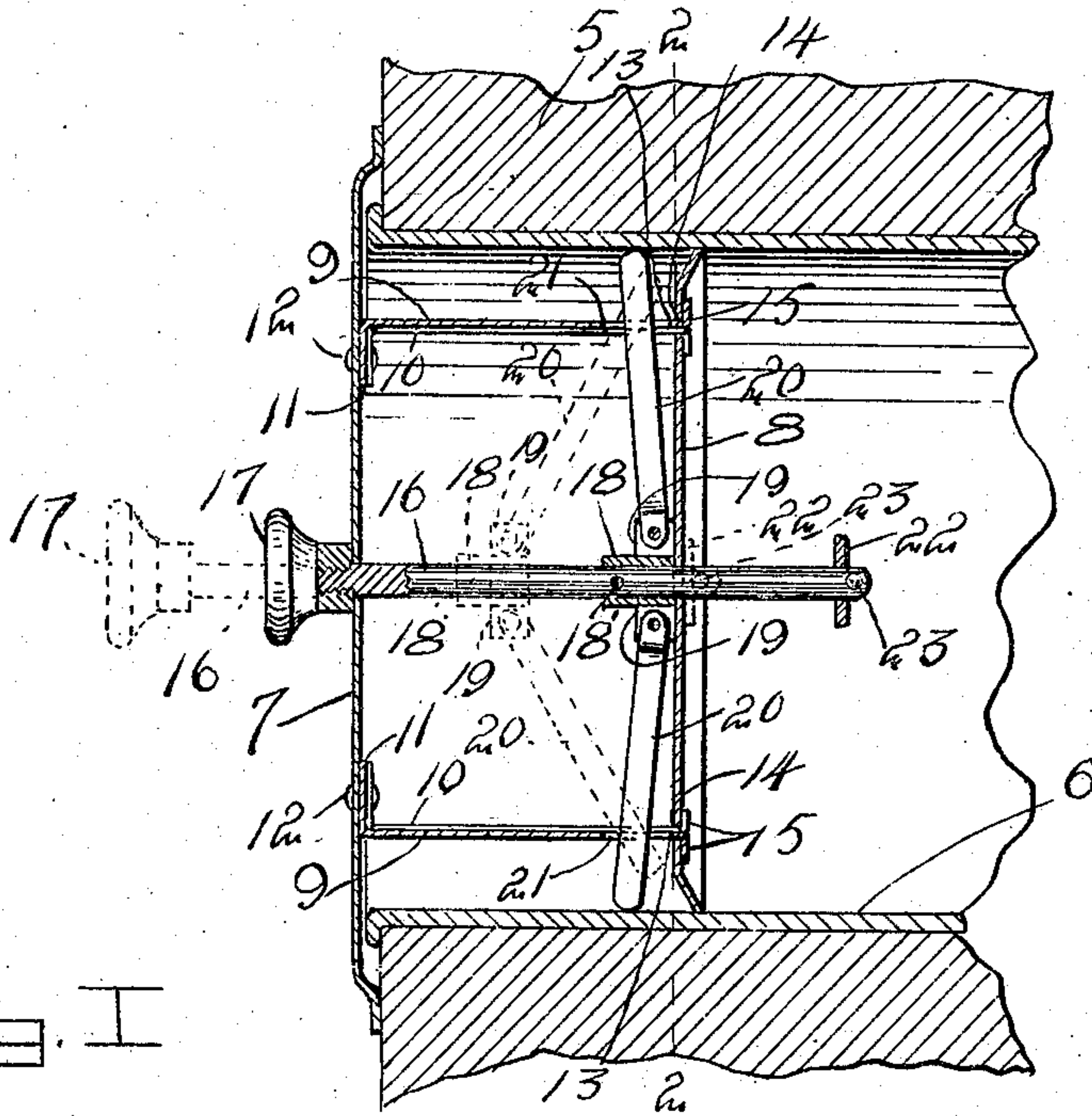


Fig. I

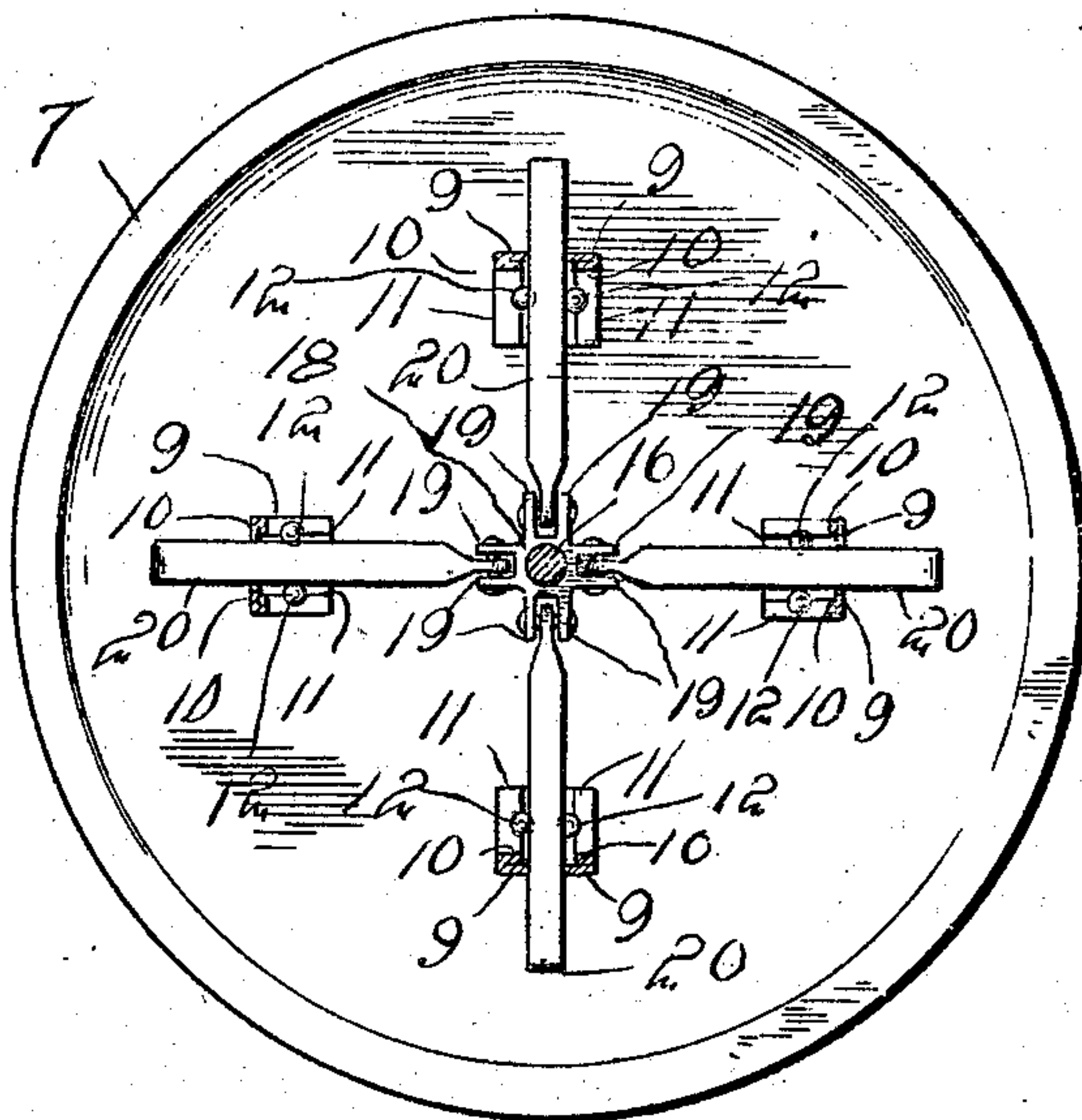


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

JAMES W. DE WEESE, OF HOOPESTON, ILLINOIS.

FLUE-STOPPER.

No. 854,986.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed June 27, 1906. Serial No. 323,631.

To all whom it may concern:

Be it known that I, JAMES W. DE WEESE, a citizen of the United States, residing at Hoopeston, in the county of Vermilion, State of Illinois, have invented certain new and useful Improvements in Flue-Stoppers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to flue stoppers and has for its object to provide a simple device of this nature which may be readily applied to and removed from a flue, and which, when applied, will be securely held in place therein to prevent falling of soot therefrom.

A further object of the invention is to provide a device of this nature of such construction that the several parts thereof will be held in co-related position when the device is removed from the thimble.

In the accompanying drawings: Figure 1 is a longitudinal sectional view through a thimble showing in elevation my invention applied thereto; and showing in dotted lines the position of the parts before being locked in the thimble. Fig. 2 is a section on line 2—2 of Fig. 1.

Referring more specifically to the drawings, the numeral 5 denotes a flue in which is located the usual thimble 6.

My flue stopper comprises a circular plate 7 of any desired design which is designed to rest against the wall in which the flue is formed and a circular plate 8 which is located within the flue. The plate 8 is held in spaced relation with respect to the plate 7 by means of spacing strips 9 which have the longitudinal edges folded upon themselves as at 10 to strengthen the strips and each have one of their ends bent at right angles as at 11 and riveted or otherwise secured as at 12 to the inner face of the circular plate 7. The opposite end of each strip 9 is bifurcated as at 13 and the tongues formed by the bifurcation are engaged through slots 14 in the plate 8 and bent in opposite directions as at 15 to lie against the rear face of said plate, it being understood that the tongues are soldered or riveted in this position to the plate. Slidably engaged through alining openings in the said plates 7 and 8 is a rod 16 which is provided at its end which lies beyond the plate 7 with a knob 17 by means of which it may be moved

back and forth through the said plates, the said knob 17 having a screw-threaded connection with the said rod. Engaged upon the said rod 16 is a sleeve 18 through which and the said rod is engaged a pin 18' which serves to hold the sleeve against movement upon the rod. Formed upon the sleeve are pairs of apertured ears 19 and between the ears of each pair is pivoted one end of an arm 20 which extends outwardly from the said sleeve and through a slot 21 formed in the corresponding spacing strip 9. For a purpose to be presently described, a washer 22 is engaged upon the said rod at its end opposite its knob and beyond the plate 8 and is held against movement from the said rod by means of a pin 23 which is engaged through the rod at its said end.

It will be understood from the foregoing that when the parts are in the position shown in dotted lines in Fig. 1, and the device is inserted in a flue and the rod 16 shoved inwardly, the arms, by reason of their engagement through the slots 21 will be spread to engage the sides of the thimble 6 and that when the sleeve has been moved to a position slightly beyond the vertical plane in which the ends of the arms 21 are located, the device will be securely locked in the flue.

It will further be understood that the washer 22 prevents entire withdrawal of the rod 16 and consequent dropping of the plate 8 therefrom.

It is to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

What is claimed is:

A device of the class described comprising a pair of plates, slotted strips connecting said plates, a rod movably engaged through the plates, and arms connected with the rod and engaged through the slots formed in said strips and arranged to engage the sides of a flue in which the device is located, the said arms being arranged to spread by the movement of said rod.

In testimony whereof, I affix my signature, in presence of two witnesses.

JAMES W. DE WEESE.

Witnesses:

C. M. BRIGGS,
N. N. DULAY.